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Production of internal bone implants - involves stage-wise plasma-deposition of layers of biologically active coating onto metallic titanium base

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Patent Family:

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Patent Details:

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RU 2074674	C1	3	A61F-002/28	

Abstract (Basic): RU 2074674 C

The method is based on plasma-deposition of biologically active coating onto metallic titanium base. To improve results, the deposition is conducted in stages, with first layer, in form of titanium or titanium hydride, with a dispersion of 3-5 microns, deposited from the distance 70-80 mm, to the thickness 5-10 microns, second layer in form of titanium or titanium hydride, of dispersity 50-100 microns, deposited from the distance 100 mm, to the thickness of 50-115 mm, third layer in form of mechanical mixture of titanium or titanium hydride of dispersity 40-70 microns, with hydroxyl-apatite of dispersity 5-10 microns, at ratio (wt.%): (60-80):(20-40), respectively, deposited from the distance 80 mm, to the thickness 15-20 microns, and fourth layer consisting of hydroxyl-apatite, of dispersity 40-70 microns, deposited from the distance 70 mm, to the thickness 20-30 microns.

USE - In medicine, especially orthopaedic stomatology, as a method of production of internal bone implants on metallic base.

ADVANTAGE - The method produces bone implants with increased mechanical strength.

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